U.S. Department of Commerce
National Institute of Standards and Technology
Gaithersburg, MD 20899

Certificate Number: 92-155
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National Type Evaluation Program

Certificate of Conformance

for Weighing and Measuring Devices

For:

Jeweler's Scale
Digital Electronic
Model: BD601/49 & BD1201/49
n_{max}: 6000
Capacity: 600 x .1 g & 1200 x .2 g
Platform: 4" & 4.75" dia.

Submitted by:

Mettler Instrument Corp.
P.O. Box 71
Highstown, NJ 08520
Tele: (609) 443-8861
Contact: Walter Kupper

Standard Features and Options

Semi-automatic zero
Integral liquid crystal display
Battery or AC adaptor power
Selectable weight units
Percent calculation
Optional RS232 interface

Temperature Range: 10 to 40 °C (50 to 104 °F)

This device was evaluated under the National Type Evaluation Program (NTEP) and was found to comply with the applicable technical requirements of Handbook 44, "Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Effective Date: August 14, 1992 Original signed by Chief, Office of Weights and Measures
Issue Date: June 22, 1993

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Mettler Instrument Corp.
Jeweler's Scale
Model: BD601/49, BD1201/49

Models:

Model	Capacities
BD601/49	600 x .1 g, 385 x .1 dwt, 19 x .005 oz t, 3000 x .5 ct, 1.3 x .0002 lb
BD1201/49	1200 x .2 g, 770 x .2 dwt, 38 x .01 oz t, 6000 x 1 ct, 2.6 x .0005 lb

Application: General purpose weighing, weighing of semi-precious gems and precious metal where the minimum load exceeds 20 d .

Identification: The identification badge is located on the left side of the scale.

Sealing: Seal these scales using a wire security seal through two screws and two tabs located on the bottom of the scale. The platform can be easily removed to reduce the risk of damage to the weighing element.

Test Conditions: Two models were submitted for evaluation, Type BD601/49 and BD1201/49. The 1200 g version was selected for influence factor testing. The emphasis of the evaluation was on device design, operation, and compliance with influence factor requirements. The scale was tested over AC voltages from 100 to 130 VAC using the AC adaptor supplied and over DC voltage from 5.8 to 12 VDC. The scale was tested over a temperature range of 10 to 40 C (50 to 104 F). A load of approximately one-half capacity was applied to the scale 100,382 times. The scale was tested periodically during this time. The results of the evaluation indicate the device complies with applicable requirements of NIST Handbook 44.

Type Evaluation Criteria Used: NIST Handbook 44, 1992 Edition

Tested By: William Fishman and Ed Szesnat (NY)